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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/837,344

DATE: 05/03/2001

TIME: 11:58:27

Input Set : N:\Crf3\RULE60\09837344.txt

Output Set: N:\CRF3\05032001\I837344.raw

#2.

SEQUENCE LISTING

3 (1) GENERAL INFORMATION:

5 (i) APPLICANT: GUERIN-MARCHAND, Claudine  
6 DRUILHE, Pierre

8 (ii) TITLE OF INVENTION: PEPTIDE SEQUENCES SPECIFIC FOR THE  
9 HEPATIC STAGES OF P. FALCIPARUM BEARING EPITOPES CAPABLE  
10 OF STIMULATING THE T LYMPHOCYTES

12 (iii) NUMBER OF SEQUENCES: 46

14 (iv) CORRESPONDENCE ADDRESS:

15 (A) ADDRESSEE: Burns, Doane, Swecker & Mathis  
16 (B) STREET: P.O. Box 1404  
17 (C) CITY: Alexandria  
18 (D) STATE: Virginia  
19 (E) COUNTRY: United States  
20 (F) ZIP: 22313-1404

22 (v) COMPUTER READABLE FORM:

23 (A) MEDIUM TYPE: Floppy disk  
24 (B) COMPUTER: IBM PC compatible  
25 (C) OPERATING SYSTEM: PC-DOS/MS-DOS  
26 (D) SOFTWARE: PatentIn Release #1.0, Version #1.30

28 (vi) CURRENT APPLICATION DATA:

C--> 29 (A) APPLICATION NUMBER: US/09/837,344  
C--> 30 (B) FILING DATE: 19-Apr-2001  
31 (C) CLASSIFICATION:

37 (vii) PRIOR APPLICATION DATA:

34 (A) APPLICATION NUMBER: 08/462,625  
35 (B) FILING DATE:  
38 (A) APPLICATION NUMBER: FR 91 01286  
39 (B) FILING DATE: 05-FEB-1991

41 (viii) ATTORNEY/AGENT INFORMATION:

42 (A) NAME: McGowan, Malcolm K.  
43 (B) REGISTRATION NUMBER: 39,300  
44 (C) REFERENCE/DOCKET NUMBER: 010830-078

46 (ix) TELECOMMUNICATION INFORMATION:

47 (A) TELEPHONE: (703) 836-6620  
48 (B) TELEFAX: (703) 836-2021

51 (2) INFORMATION FOR SEQ ID NO: 1:

53 (i) SEQUENCE CHARACTERISTICS:

54 (A) LENGTH: 17 amino acids  
55 (B) TYPE: amino acid  
56 (C) STRANDEDNESS: single  
57 (D) TOPOLOGY: linear

59 (ii) MOLECULE TYPE: peptide

61 (ix) FEATURE:

62 (A) NAME/KEY: Peptide  
63 (B) LOCATION: 8  
64 (D) OTHER INFORMATION: /note= "Amino Acid 8 wherein Xaa is

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65 Glu or Gly."  
67 (x) PUBLICATION INFORMATION:  
68 (H) DOCUMENT NUMBER: WO 92/13884  
69 (J) PUBLICATION DATE: 20-AUG-1992  
71 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:  
W--> 73 Leu Ala Lys Glu Lys Leu Gln Xaa Gln Gln Ser Asp Leu Glu Gln Glu  
74 1 5 10 15  
76 Arg  
78 (2) INFORMATION FOR SEQ ID NO: 2:  
80 (i) SEQUENCE CHARACTERISTICS:  
81 (A) LENGTH: 17 amino acids  
82 (B) TYPE: amino acid  
83 (C) STRANDEDNESS: single  
84 (D) TOPOLOGY: linear  
86 (ii) MOLECULE TYPE: peptide  
88 (ix) FEATURE:  
89 (A) NAME/KEY: Peptide  
90 (B) LOCATION: 1  
91 (D) OTHER INFORMATION: /note= "Amino Acid 1 wherein Xaa is  
92 Ser or Arg."  
94 (ix) FEATURE:  
95 (A) NAME/KEY: Peptide  
96 (B) LOCATION: 6  
97 (D) OTHER INFORMATION: /note= "Amino Acid 6 wherein Xaa is  
98 Glu or Asp."  
100 (ix) FEATURE:  
101 (A) NAME/KEY: Peptide  
102 (B) LOCATION: 8  
103 (D) OTHER INFORMATION: /note= "Amino Acid 8 wherein Xaa is  
104 Arg or Leu."  
106 (ix) FEATURE:  
107 (A) NAME/KEY: Peptide  
108 (B) LOCATION: 15  
109 (D) OTHER INFORMATION: /note= "Amino Acid 15 wherein Xaa  
110 is Glu or Gly."  
112 (x) PUBLICATION INFORMATION:  
113 (H) DOCUMENT NUMBER: WO 92/13884  
114 (J) PUBLICATION DATE: 20-AUG-1992  
116 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:  
W--> 118 Xaa Asp Leu Glu Gln Xaa Arg Xaa Ala Lys Glu Lys Leu Gln Xaa Gln  
119 1 5 10 15  
121 Gln  
123 (2) INFORMATION FOR SEQ ID NO: 3:  
125 (i) SEQUENCE CHARACTERISTICS:  
126 (A) LENGTH: 17 amino acids  
127 (B) TYPE: amino acid  
128 (C) STRANDEDNESS: single  
129 (D) TOPOLOGY: linear  
131 (ii) MOLECULE TYPE: peptide

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133 (ix) FEATURE:  
134 (A) NAME/KEY: Peptide  
135 (B) LOCATION: 2  
136 (D) OTHER INFORMATION: /note= "Amino Acid 2 wherein Xaa is  
137 Ser or Arg."  
139 (ix) FEATURE:  
140 (A) NAME/KEY: Peptide  
141 (B) LOCATION: 7  
142 (D) OTHER INFORMATION: /note= "Amino Acid 7 wherein Xaa is  
143 Glu or Asp."  
145 (ix) FEATURE:  
146 (A) NAME/KEY: Peptide  
147 (B) LOCATION: 9  
148 (D) OTHER INFORMATION: /note= "Amino Acid 9 wherein Xaa is  
149 Arg or Leu."  
151 (ix) FEATURE:  
152 (A) NAME/KEY: Peptide  
153 (B) LOCATION: 16  
154 (D) OTHER INFORMATION: /note= "Amino Acid 16 wherein Xaa  
155 is Glu or Gly."  
157 (x) PUBLICATION INFORMATION:  
158 (H) DOCUMENT NUMBER: WO 92/13884  
159 (J) PUBLICATION DATE: 20-AUG-1992  
161 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:  
W--> 163 Gln Xaa Asp Leu Glu Gln Xaa Arg Xaa Ala Lys Glu Lys Leu Gln Xaa  
164 1 5 10 15  
166 Gln  
168 (2) INFORMATION FOR SEQ ID NO: 4:  
170 (i) SEQUENCE CHARACTERISTICS:  
171 (A) LENGTH: 17 amino acids  
172 (B) TYPE: amino acid  
173 (C) STRANDEDNESS: single  
174 (D) TOPOLOGY: linear  
176 (ii) MOLECULE TYPE: peptide  
178 (ix) FEATURE:  
179 (A) NAME/KEY: Peptide  
180 (B) LOCATION: 3  
181 (D) OTHER INFORMATION: /note= "Amino Acid 3 wherein Xaa is  
182 Ser or Arg."  
184 (ix) FEATURE:  
185 (A) NAME/KEY: Peptide  
186 (B) LOCATION: 8  
187 (D) OTHER INFORMATION: /note= "Amino Acid 8 wherein Xaa is  
188 Glu or Asp."  
190 (ix) FEATURE:  
191 (A) NAME/KEY: Peptide  
192 (B) LOCATION: 10  
193 (D) OTHER INFORMATION: /note= "Amino Acid 10 wherein Xaa  
194 is Arg or Leu."

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196 (ix) FEATURE:  
197 (A) NAME/KEY: Peptide  
198 (B) LOCATION: 17  
199 (D) OTHER INFORMATION: /note= "Amino Acid 17 wherein Xaa  
200 is Glu or Gly."  
202 (x) PUBLICATION INFORMATION:  
203 (H) DOCUMENT NUMBER: WO 92/13884  
204 (J) PUBLICATION DATE: 20-AUG-1992  
206 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:  
W--> 208 Gln Gln Xaa Asp Leu Glu Gln Xaa Arg Xaa Ala Lys Glu Lys Leu Gln  
209 1 5 10 15  
W--> 211 Xaa  
213 (2) INFORMATION FOR SEQ ID NO: 5:  
215 (i) SEQUENCE CHARACTERISTICS:  
216 (A) LENGTH: 17 amino acids  
217 (B) TYPE: amino acid  
218 (C) STRANDEDNESS: single  
219 (D) TOPOLOGY: linear  
221 (ii) MOLECULE TYPE: peptide  
223 (ix) FEATURE:  
224 (A) NAME/KEY: Peptide  
225 (B) LOCATION: 1  
226 (D) OTHER INFORMATION: /note= "Amino Acid 1 wherein Xaa is  
227 Glu or Gly."  
229 (ix) FEATURE:  
230 (A) NAME/KEY: Peptide  
231 (B) LOCATION: 4  
232 (D) OTHER INFORMATION: /note= "Amino Acid 4 wherein Xaa is  
233 Ser or Arg."  
235 (ix) FEATURE:  
236 (A) NAME/KEY: Peptide  
237 (B) LOCATION: 9  
238 (D) OTHER INFORMATION: /note= "Amino Acid 9 wherein Xaa is  
239 Glu or Asp."  
241 (ix) FEATURE:  
242 (A) NAME/KEY: Peptide  
243 (B) LOCATION: 11  
244 (D) OTHER INFORMATION: /note= "Amino Acid 11 wherein Xaa  
245 is Arg or Leu."  
247 (x) PUBLICATION INFORMATION:  
248 (H) DOCUMENT NUMBER: WO 92/13884  
249 (J) PUBLICATION DATE: 20-AUG-1992  
251 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:  
W--> 253 Xaa Gln Gln Xaa Asp Leu Glu Gln Xaa Arg Xaa Ala Lys Glu Lys Leu  
254 1 5 10 15  
256 Gln  
258 (2) INFORMATION FOR SEQ ID NO: 6:  
260 (i) SEQUENCE CHARACTERISTICS:  
261 (A) LENGTH: 17 amino acids

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Output Set: N:\CRF3\05032001\I837344.raw

262 (B) TYPE: amino acid  
263 (C) STRANDEDNESS: single  
264 (D) TOPOLOGY: linear  
266 (ii) MOLECULE TYPE: peptide  
268 (ix) FEATURE:  
269 (A) NAME/KEY: Peptide  
270 (B) LOCATION: 2  
271 (D) OTHER INFORMATION: /note= "Amino Acid 2 wherein Xaa is  
272 Glu or Gly."  
274 (ix) FEATURE:  
275 (A) NAME/KEY: Peptide  
276 (B) LOCATION: 5  
278 (D) OTHER INFORMATION: /note= "Amino Acid 5 wherein Xaa is  
279 Ser or Arg."  
281 (ix) FEATURE:  
282 (A) NAME/KEY: Peptide  
283 (B) LOCATION: 10  
284 (D) OTHER INFORMATION: /note= "Amino Acid 10 wherein Xaa  
285 is Glu or Asp."  
287 (ix) FEATURE:  
288 (A) NAME/KEY: Peptide  
289 (B) LOCATION: 12  
290 (D) OTHER INFORMATION: /note= "Amino Acid 12 wherein Xaa  
291 is Arg or Leu."  
293 (x) PUBLICATION INFORMATION:  
294 (H) DOCUMENT NUMBER: WO 92/13884  
295 (J) PUBLICATION DATE: 20-AUG-1992  
297 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:  
W--> 299 Gln Xaa Gln Gln Xaa Asp Leu Glu Gln Xaa Arg Xaa Ala Lys Glu Lys  
300 1 5 10 15  
302 Leu  
304 (2) INFORMATION FOR SEQ ID NO: 7:  
306 (i) SEQUENCE CHARACTERISTICS:  
307 (A) LENGTH: 17 amino acids  
308 (B) TYPE: amino acid  
309 (C) STRANDEDNESS: single  
310 (D) TOPOLOGY: linear  
312 (ii) MOLECULE TYPE: peptide  
314 (ix) FEATURE:  
315 (A) NAME/KEY: Peptide  
316 (B) LOCATION: 3  
317 (D) OTHER INFORMATION: /note= "Amino Acid 3 wherein Xaa is  
318 Glu or Gly."  
320 (ix) FEATURE:  
321 (A) NAME/KEY: Peptide  
322 (B) LOCATION: 6  
323 (D) OTHER INFORMATION: /note= "Amino Acid 6 wherein Xaa is  
324 Ser or Arg."  
326 (ix) FEATURE:

VERIFICATION SUMMARY  
PATENT APPLICATION: US/09/837,344

DATE: 05/03/2001  
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Input Set : N:\Crf3\RULE60\09837344.txt  
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L:29 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]  
L:30 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]  
L:73 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1  
L:118 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2  
L:163 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:208 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:211 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:253 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5  
L:299 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:344 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
L:389 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:434 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9  
L:479 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10  
L:524 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11  
L:527 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11  
L:569 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12  
L:614 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13  
L:617 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13  
L:659 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14  
L:704 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15  
L:750 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16  
L:795 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17  
L:840 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18  
L:843 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18